

108 / 8 32, 443

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L1 2 IMPROL..

=> d111-2 bib ab

L1 ANSWER 1 OF 2 EMBASE COPYRIGHT 1999 ELSEVIER SCI B.V.

ACCESSION NUMBER: 86057720 EMBASE

DOCUMENT NUMBER: 1986057720

TITLE: [Disko-radicular conflict treatment by intradiscal

chymopapain].

TRAITEMENT DES CONFLITS DISCO-RADICULAIRES PAR

INJECTION

INTRADISCALE D'APROTININE.

AUTHOR: Armor B, Revel M, Dougados M, et al.

CORPORATE SOURCE: Clinique de Rhumatologie, Hopital Cochin, 75014

Paris,

France.

SOURCE: Medecine et Armees. (1985), 13(8) (751-754).

COUNTRY: France

DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index

LANGUAGE: French

L1 ANSWER 2 OF 2 EMBASE COPYRIGHT 1999 ELSEVIER SCI B.V.

ACCESSION NUMBER: 78330046 EMBASE

DOCUMENT NUMBER: 1979330046

TITLE: [Pulmonary embolism].

EMBOILLES PULMONAIRES. SIGNES, DIAGNOSTIC,

TRAITEMENT.

AUTHOR: Roudaut R.

CORPORATE SOURCE: France

SOURCE: Bordeaux Medcial. (1976) 11/12 (1061-1066)

COUNTRY: France

DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index

015 Chest Diseases, Thoracic Surgery and Tuberculosis

006 Internal Medicine

French

LANGUAGE:

L2 0 FPHFDLSH6SAQVS OR PHE PRO-H-S-PHE-ASP-LEU-SER-HI-  
GLY-SER-ALA-GL  
N-VAL

=> stemoglobin and (stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)

HEMOGLOBINS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

\*HELP COMMANDS\* at an arrow prompt (>).

=> stemoglobin and (stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)

L3 3111 HEMOGLOBIN AND (STEM CELL OR HEMATOPOIE? OR

PROGENITOR(W)CELL  
OR PLURIPOTENT?)

=> s13 and (stimulat? or prolifer?)

L4 1002 L3 AND (STIMULAT? OR PROLIFER?)

=> dup rem

ENTER !# LIST OR (END):14

PROCESSING IS APPROXIMATELY 40% COMPLETE FOR L4

PROCESSING COMPLETED FOR L4

L5 400 DUP REM L4 (536 DUPLICATES REMOVED)

=> s13 and (inhib? or reduc? or abrogat? or antagon?)

L6 790L3 AND ((INHIB? OR REDUC? OR ABROGAT? OR ANTAGON?)

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING IS APPROXIMATELY 87% COMPLETE FOR L6

PROCESSING COMPLETED FOR L6

L7 381 DUP REM 16 (409 DUPLICATES REMOVED)

=> stemoglobin and ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)OR(inhib? or reduc? or abrogat? or antagon?))

ANSWER 1 OF 31 MEDL

ACCESSION NUMBER: 19984-

DOCUMENT NUMBER: 9844-

TITLE: [A case of post-

dyserythropoiesis

lupus erythematosus

The search profile that was entered contains terms or

nested terms that are not separated by a logical operator.

=> stemoglobin and ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)OR(inhib? or reduc? or abrogat? or antagon?))

MISSING OPERATOR IPOTENT?) 5A

The search profile that was entered contains terms or

nested terms that are not separated by a logical operator.

=> stemoglobin 5a ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)OR(inhib? or reduc? or abrogat? or antagon?))

MISSING OPERATOR -5A ((STEM

nested terms that are not separated by a logical operator.

L8 80 HEMOGLOBIN AND  
PLURIPOTENT(W)CELL  
OR PLURIPOTENT?)

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING COMPLETED FOR L8 (491

L9 31 DUP REM L8 (491

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING COMPLETED FOR L9 (491

L10 31 DUP REM L9 (491

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING COMPLETED FOR L10 (491

L11 31 DUP REM L10 (491

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING COMPLETED FOR L11 (491

L12 0 FPHFDLSH6SAQVS OR PHE PRO-H-S-PHE-ASP-LEU-SER-HI-  
GLY-SER-ALA-GL  
N-VAL

=> stemoglobin and ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)

HEMOGLOBINS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

\*HELP COMMANDS\* at an arrow prompt (>).

=> stemoglobin and ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)

L13 3111 HEMOGLOBIN AND (STEM CELL OR HEMATOPOIE? OR

PROGENITOR(W)CELL  
OR PLURIPOTENT?)

=> s13 and (stimulat? or prolifer?)

L14 1002 L13 AND (STIMULAT? OR PROLIFER?)

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING IS APPROXIMATELY 40% COMPLETE FOR L14

PROCESSING COMPLETED FOR L14

L15 400 DUP REM L14 (536 DUPLICATES REMOVED)

=> s13 and (inhib? or reduc? or abrogat? or antagon?)

L16 790L13 AND ((INHIB? OR REDUC? OR ABROGAT? OR ANTAGON?)

=> dup rem

ENTER !# LIST OR (END):16

PROCESSING IS APPROXIMATELY 87% COMPLETE FOR L16

PROCESSING COMPLETED FOR L16

L17 381 DUP REM 16 (409 DUPLICATES REMOVED)

=> stemoglobin and ((stem cell or hematopoie? or progenitor(w)cell or

pluripotent?)OR(inhib? or reduc? or abrogat? or antagon?))



08 / 832, 44 \*

The Netherlands.

SOURCE: JOURNAL OF THE NATIONAL CANCER INSTITUTE, (1996 Oct 2) 88 (19) 1393-8

Journal code: JNCI ISSN 0027-8874.

PUB COUNTRY: United States

(CLINICAL TRIAL)  
(JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English  
FILE SEGMENT: Cancer Journals; Priority Journals

ENTRY MONTH: 199612  
AB BACKGROUND: Increased proliferation of endogenous bone marrow progenitor cells in response to the administration of hematopoietic growth factors, followed by reduced cell cycling or entrance of the system to subsequent myelotoxic treatments. PURPOSE: We investigated

ability of granulocyte colony-stimulating factor (G-CSF) to protect progenitor cells in the bone marrow of cancer patients from the toxic effects of subsequent treatments with chemotherapeutic agents.

METHODS: Thirty-six patients with histologically documented, locally advanced or metastatic breast cancer were randomly assigned to receive doxorubicin once every 3 weeks at a dose of 75 mg/m<sup>2</sup> and cyclophosphamide at a dose of 1000 mg/m<sup>2</sup>, with G-CSF administered either before and after chemotherapy (18 patients) or after chemotherapy only (18 patients). For prechemotherapy administration of G-CSF, recombinant human methionyl (r-met) Hu G-CSF was administered subcutaneously to patients twice per day for 5 days at a dose of 5 micrograms/kg, with the last dose given 48 hours before the start of chemotherapy. For postchemotherapy administration of G-CSF, r-met Hu G-CSF was administered subcutaneously to patients once per day for 7 days at a dose of 5 micrograms/kg, with the first dose given 24 hours after chemotherapy. RESULTS: The incidence or the duration of side effects was not reduced in all patients by the use of prechemotherapy G-CSF; the incidence over all cycles of chemotherapy was 71% for patients treated with prechemotherapy and postchemotherapy G-CSF and 66% for patients treated with postchemotherapy G-CSF only (two-sided P, adjusted for dose = .21) and the median duration in both treatment arms was 3 days (two-sided P = .19). Unexpectedly, the incidence of grades 3 and 4 thrombocytopenia was much greater in patients who received prechemotherapy G-CSF compared with those who did not (54% versus 6%, respectively, over all chemotherapy cycles; two-sided P, adjusted for dose < .001). No difference in the decrease in hemoglobin level (adjusted for red blood cell transfusions) between patients in the two treatment arms was observed. CONCLUSIONS AND IMPLICATIONS: No beneficial effects were associated with the administration of G-CSF to cancer patients prior to chemotherapy. The observation of more severe

thrombocytopenia in patients treated with prechemotherapy G-CSF led us to conclude that the proliferation of progenitor cells was still increased 48 hours after the last dose of G-CSF and that the administration of chemotherapy at or within this time period actually worsens the toxic effects on bone marrow. This result has important ramifications for the design of clinical cancer treatment protocols, especially those that involve shortened intervals between cycles of chemotherapeutic agent administration.

L9 ANSWER 7 OF 31 MEDLINE DUPLICATE 6  
ACCESSION NUMBER: 96374369 MEDLINE  
DOCUMENT NUMBER: 9641  
TITLE: A randomized, double-blind comparison of donor tolerance of sham donations. Physiologic response to reduced red cell donation in the hematopoietic group, but the donation of symptoms of reduced oxygen

PUB COUNTRY: United States  
(CLINICAL TRIAL)  
(JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199612  
AB BACKGROUND: Volume replacement could allow the safe collection of twice the normal amount of red cells in a standard donation. Studies in small numbers of donors have shown that a temporary decrease in red cell mass

is well tolerated when donors give twice the usual amount (170-225 mL) of red cells in a standard 405- to 495-mL donation. Sham-donation control groups have not been included in previous studies of increased red cell donation, and perceptions of donation effects could have been biased. STUDY DESIGN AND METHODS: In the study reported here, 17 male and 13 female volunteers were randomly assigned to make a sham donation, 1-unit donation, or 2-unit donation on an automated blood cell separator. Donor tolerance was assessed by ambulatory heart rate monitoring and by a poststudy interview.

Hemoglobin, hematocrit, ferritin, serum iron, total iron-binding capacity, red cell 2,3-DPG, and serum erythropoietin were measured before and after donation for comparison of the erythropoietic responses in the three study groups. RESULTS: Red cells collected totaled 206 +/- 10 mL in the 1-unit group and 414 +/- 21 mL in the 2-unit group. Changes in heart rate, systolic blood pressure, and diastolic blood pressure with donation and changes in heart rate recorded by ambulatory monitoring did not differ.

for the experimental groups. Postdonation changes from baseline values were evaluated on Days 2, 7, and 14. Changes in hemoglobin were significantly different between groups ( $p < 0.017$ ) in all postdonation tests. There were differences between groups in erythropoietin response.

red cell 2,3-DPG, ferritin levels, and hemoglobin synthesis.

Hemoglobin synthesis and mean changes in 2,3-DPG, erythropoietin,

\*term, and postdonation hr. >2 hr than in the 1-unit group. donations of 414 +/- 21 mL 450-mL blood donation, due to

or sham donations. Physiologic response to reduced red cell donation in the hematopoietic group, but the donation of symptoms of reduced oxygen

L9 ANSWER 8 OF 31 MEDLINE  
ACCESSION NUMBER: 9641  
DOCUMENT NUMBER: 9641  
TITLE: A semiautomatic stem cell suspensor autotransplantation

AUTHOR: Ayello, J. H.; Smith, K. J.; James, D. S.; Hunt, W. C.; McDonough, W.; Quintana, School of Medicine, Albuquerque, USA.

SOURCE: TRANSFUSION, (1996 Aug) 36 (8) 674-80.

PUB COUNTRY: United States  
(CLINICAL TRIAL)  
(JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199612  
AB BACKGROUND: Volume replacement could allow the safe collection of twice the normal amount of red cells in a standard donation. Studies in small numbers of donors have shown that a temporary decrease in red cell mass

is well tolerated when donors give twice the usual amount (170-225 mL) of red cells in a standard 405- to 495-mL donation. Sham-donation control groups have not been included in previous studies of increased red cell donation, and perceptions of donation effects could have been biased. STUDY DESIGN AND METHODS: In the study reported here, 17 male and 13 female volunteers were randomly assigned to make a sham donation, 1-unit donation, or 2-unit donation on an automated blood cell separator. Donor tolerance was assessed by ambulatory heart rate monitoring and by a poststudy interview.

Hemoglobin, hematocrit, ferritin, serum iron, total iron-binding capacity, red cell 2,3-DPG, and serum erythropoietin were measured before and after donation for comparison of the erythropoietic responses in the three study groups. RESULTS: Red cells collected totaled 206 +/- 10 mL in the 1-unit group and 414 +/- 21 mL in the 2-unit group. Changes in heart rate, systolic blood pressure, and diastolic blood pressure with donation and changes in heart rate recorded by ambulatory monitoring did not differ.

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red cell 2,3-DPG, ferritin levels, and hemoglobin synthesis.

Hemoglobin synthesis and mean changes in 2,3-DPG, erythropoietin,

\*term, and postdonation hr. >2 hr than in the 1-unit group. donations of 414 +/- 21 mL 450-mL blood donation, due to

or sham donations. Physiologic response to reduced red cell donation in the hematopoietic group, but the donation of symptoms of reduced oxygen

L9 ANSWER 9 OF 31 MEDLINE  
ACCESSION NUMBER: 9541  
DOCUMENT NUMBER: 9541  
TITLE: Myelodysplastic syndrome: a multicenter study of 1003 patients. Part V: 1991-1992 results

AUTHOR: Sezer, F.; Locatelli, F.; et al.

SOURCE: Clinico



levels of engraftment in 6 of these 9 transplant chimeras remained stable or increased up to 150 days after transplantation, with levels ranging from 13.6% to 54.6% at 280 days. Three chimeras have demonstrated gradually decreasing engraftment after 200 days. The degree of engagment

correlated with clinically relevant improvement: decreased reticulocyte counts [8.4% to 15.7% in chimeras ( $n = 9$ ) vs. 17.1% to 19.1% in controls ( $n = 8$ );  $P = .01$ ], increased mean RBC deformability, and the significant reduction in extramedullary hematopoiesis and iron deposits seen on histological examination of chimeric liver and spleen. These data demonstrate that fetal HSC transplants results in significant long-term chimerism with favorable alterations in red cell characteristics, and decreased hemolytic anemia in beta-thalassemia.

**L9 ANSWER 13 OF 31 MEDLINE** DOCUMENT NUMBER: 933375581

DUPLICATE 12  
TITLE:  
DOCUMENT NUMBER: 933375581

Detection of erythropoietic inhibitor factor in a case of acute non-lymphocytic leukemia after allogenic bone marrow transplantation.

AUTHOR: Kurokawa K, Aizawa S, Hojo H, Kawanishi Y, Kimura Y, Toyama K

CORPORATE SOURCE: First Department of Internal Medicine, Tokyo Medical College.

SOURCE: RINSHO KETSUEKI. JAPANESE JOURNAL OF CLINICAL HEMATOLOGY.

(1993 Jun) 34(6) 746-52.

JOURNAL CODE: KII ISSN: 0485-1439.

PUB. COUNTRY: Japan  
JOURNAL ARTICLE:

LANGUAGE: Japanese  
ENTRY MONTH: 199312  
AB: A 36-year-old man was diagnosed as having acute non-lymphocytic leukemia (AML-M5b) in 1985 and received allogenic bone marrow transplantation from an ABO-mismatched sibling in January 1987. Recovery of erythropoiesis in this patient was delayed, then the hemoglobin level improved in parallel with disappearance of anti-A antibody in the serum on day 260 post transplantation. However, as anemia occurred again despite no response

of leukemia on day 350, we tried to determine the presence of erythropoietic inhibitor factor in this patients. Erythroid colony formation was decreased when bone marrow cells were cocultured with peripheral mononuclear cells from the patient. Further, erythroid colony inhibitory activity was found in conditioned medium of PHA-stimulated T cells from the patient. Sephadex gel fractionation showed that the molecular weight of this inhibitory factor was approximately 11,000 and addition of a high concentration of EPO did not eliminate the inhibitory activity. These findings suggest that the novel inhibitor described in this manuscript, produced by T cells, was different from previously reported inhibitors such as anti-EPO antibody, sphenine and uremic toxins.

**L9 ANSWER 14 OF 31 MEDLINE** DOCUMENT NUMBER: 94003392

DUPLICATE 13  
TITLE:  
Tumor inhibition and hematopoietic

stimulation in mice by a synthetic copper-ATP complex.

AUTHOR: Pal S, Ray M, Marti P

CORPORATE SOURCE: Department of Cell Biology, Chittaranjan National Cancer

SOURCE: Institute, Calcutta, India.  
ANTI-CANCER DRUGS. (1993 Aug) 4(4) 505-10.  
Journal code: ASF ISSN: 0959-4973.

FUB. COUNTRY: ENGLAND, United Kingdom  
JOURNAL ARTICLE:

LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199401  
AB: The hematologic effect of [Cu3(ATP)(ZnH2O)2]-, a synthetic copper-

ATP complex (Cu-ATP) having antitumor activity, was investigated in normal and

Ehrlich ascites carcinoma-bearing mice. Cu-ATP (25 mg/kg) induced appreciable tumor inhibition and prolonged host survival which were accompanied by elevated levels of hemoglobin, platelet and

lymphocytes while total WBC count and bone marrow cellularity remained unaffected. In normal mice the compound elicited marrow and splenic hypercellularity with a greater number of granulocyte progenitors and elevated levels of peripheral WBC, RBC and platelets. In addition, the total number of CFU-S of these treated animals was increased and these pluripotent stem cells differentiated preferentially towards granulocyte lineage. The results indicate that Cu-ATP does not adversely affect hematopoiesis while it inhibits tumor growth; on the contrary, it has a stimulatory effect on murine granulocytopoiesis.

**L9 ANSWER 15 OF 31 MEDLINE** DOCUMENT NUMBER: 93114386

DUPLICATE 14  
TITLE:  
The effect of nordihydroguaiaretic acid, an inhibitor of prostaglandin and leukotriene biosynthesis, on hematopoiesis of gamma-irradiated mice [published erratum appears in Exp Hematol 1993 Apr;21(4):593].

AUTHOR: Kozlik A, Hofmannova J, Holc J, Netikova J

CORPORATE SOURCE: Institute of Biophysics, Czechoslovak Academy of Sciences, Brno.

SOURCE: EXPERIMENTAL HEMATOLOGY. (1993 Jan) 21(1) 138-42.

JOURNAL CODE: EHP ISSN: 0301-472X

PUB. COUNTRY: United States  
JOURNAL ARTICLE:

LANGUAGE: English  
FILE SEGMENT: Cancer Journals; Priority Journals

ENTRY MONTH: 199304  
AB: The effects of the inhibition of the cyclooxygenase and lipoxygenase metabolic pathways of arachidonic acid on the postirradiation recovery of hematopoietic functions in mice were investigated. Nordihydroguaiaretic acid (NDGA), an inhibitor of prostaglandin (PG) and leukotriene (LT) production, was given to animals in single doses (0.015 to 0.75 mg/mouse) 1 hour before 5 Gy of total-body gamma-irradiation. Enhanced hematopoietic regeneration was observed in mice treated with NDGA. The treatment used influenced neither lymphocyte nor erythrocyte postirradiational levels or hemoglobin concentration. A comparison of the effects induced by a high dose of NDGA (0.3 mg per mouse) with those observed after an somolar dose of indomethacin (an inhibitor of PG production) indicated only slight differences between these two drugs. An isomolar dose of esculetin (an inhibitor of LT production) had no effect on the postirradiation behavior of hematopoiesis. The results suggest that the inhibition of PG production plays the main role in the mechanism of NDGA action. Inhibition of LT production seems to be of less importance for hematopoiesis in these in vivo conditions.

**L9 ANSWER 16 OF 31 MEDLINE** DOCUMENT NUMBER: 91245

DUPLICATE NUMBER: 91245  
TITLE:  
Neoprotein concert.

AUTHOR: Fuchs D, Schreiber G, Weissenbach J, Reinberger G, Weissbach H

CORPORATE SOURCE: Inst. University of Innsbruck, Austria

SOURCE: AIDS. (1991 Jul) 5(7): 1011-1015.

JOURNAL CODE: AID ISSN: 0898-2603

PUB. COUNTRY: United States  
JOURNAL ARTICLE:

LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199106  
AB: Hematopoietic disturbance in AIDS patients.

Recent studies on immune

demonstrate that HIV-1 infection is associated with a possible association of blood cell counts (CD4+ blood cells) and hemoglobin

HIV-1-seropositive individuals with WR5, and 10 WR2). There is a positive correlation between concentrations of

neopterin in concentrations of hematocrit and platelets.

either only WR1 and WR2; or

for calculations. Thus, hemochromatosis activation of

neopterin are released

interferon-gamma (IFN- $\gamma$  alpha)

further enhances the effec-

that activated immune cells and

TNF

alpha are involved in inhibiting

multifaceted mechanisms of

infection.

hemoglobin

neopterin stim-

ulates the

regulation of

immunity.

multifaceted mechanisms of

infection.

hemoglobin

neopterin stim-

ulates the

regulation of

immunity.

**L9 ANSWER 17 OF 31 MEDLINE** DOCUMENT NUMBER: 9167

DUPLICATE 14  
TITLE:  
[STUDY OF TRANSFORMING GROWTH FACTOR IN ACUTE LYMPHOBLASTIC LEUKEMIA]

SYNDROMES:  
LYMPHOPLASMA

AUTHOR: Le Roehrer C, D'Orsi A, Marti P

CORPORATE SOURCE: Univ. Swiss Inst. of Cancer

JOURNAL ARTICLE:

ISSN: 0419-4217  
DOCUMENT TYPE: THE:

FILE SEGMENT: ICB





Studies show directly that (i) Hb F synthesis is controlled at the level of progenitors and (ii) it involves interactions between progenitor cells and their environment.

1.9 ANSWER 26 OF 31 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.  
ACCESSION NUMBER: 1984024833 EMBASE  
TITLE: Direct evidence for interaction between human erythroid progenitor cells and a hemoglobin switching

AUTHOR: Stamatiouyanopoulos G.; Nakamoto B.; Kurouchi S.; Papavassiliou T.  
CORPORATE SOURCE: Division of Medical Genetics, University of Washington, Seattle, WA 98195, United States  
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1983) 80/181 (5650-5654).

CODEN: PNASAB  
COUNTRY: United States  
DOCUMENT TYPE: Journal

LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 198310  
AB Iron status was determined in 280 free-living and healthy elderly men (n = 131) and women (n = 149) by assessing dietary and supplemental iron intake as well as ten biochemical measures of iron nutriture (erythrocyte count, hemoglobin level, hematocrit, mean corpuscular volume, mean corpuscular hemoglobin, mean corpuscular hemoglobin concentration, plasma iron level, total iron-binding capacity, per cent transferrin saturation, and ferritin level). Subject ages ranged from 60 to 93 years with a median age of 72 years for both women and men. For comparison purposes, iron status measures in an unselected group of younger men (n = 107) and women (n = 164) between the ages of 20 and 39 years were also obtained. None of the elderly women and only two (1.2 percent) of the younger women had low hemoglobin levels (less than 12.0 g/dl). Three (2.3 percent) of the elderly men and none of the younger men had low hemoglobin levels (less than 14 g/dl). Other iron status measures revealed that anemia or iron deficiency was no more prevalent in the healthy elderly population than in the younger adult population when identical criteria were used to assess iron nutriture. The genesis of anemia often seen in the elderly is not completely understood. Reported evidence suggests the presence of anemia in the elderly is a result of overall reduction of hematopoietic reserves.

Because of the potentially serious consequences of this assumption about anemia to the treatment of the elderly, the authors critically review some of the studies that have been designed in the past to determine the prevalence and etiology of anemia in the aged. They suggest that health status, race, socioeconomic status, diet, and religion are more important than age as explanations for the high prevalence of anemia seen in many previous studies.

1.9 ANSWER 27 OF 31 MEDLINE DOCUMENT NUMBER: 83239504 EMBASE  
ACCESSION NUMBER: 83239504 EMBASE  
TITLE: Iron status and anemia in the elderly: new findings and a review of previous studies.

AUTHOR: Gary P. J.; Goodwin J. S.; Hunt W. C.

CONTRACT NUMBER: AG02049 (NIA)

SOURCE: RR-00997-05.06 (NCR)  
JOURNAL OF THE AMERICAN GERIATRIC SOCIETY (1983 Jul) 31 (7) 389-99.

PUB COUNTRY: United States  
JOURNAL ARTICLE  
LANGUAGE: English  
FILE SEGMENT: Priority Journals

ENTRY MONTH: 198310  
AB Iron status was determined in 280 free-living and healthy elderly men (n = 131) and women (n = 149) by assessing dietary and supplemental iron intake as well as ten biochemical measures of iron nutriture (erythrocyte count, hemoglobin level, hematocrit, mean corpuscular volume, mean corpuscular hemoglobin, mean corpuscular hemoglobin concentration, plasma iron level, total iron-binding capacity, per cent transferrin saturation, and ferritin level). Subject ages ranged from 60 to 93 years with a median age of 72 years for both women and men. For comparison purposes, iron status measures in an unselected group of younger men (n = 107) and women (n = 164) between the ages of 20 and 39 years were also obtained. None of the elderly women and only two (1.2 percent) of the younger women had low hemoglobin levels (less than 12.0 g/dl). Three (2.3 percent) of the elderly men and none of the younger men had low hemoglobin levels (less than 14 g/dl). Other iron status measures revealed that anemia or iron deficiency was no more prevalent in the healthy elderly population than in the younger adult population when identical criteria were used to assess iron nutriture. The genesis of anemia often seen in the elderly is not completely understood. Reported evidence suggests the presence of anemia in the elderly is a result of overall reduction of hematopoietic reserves.

Because of the potentially serious consequences of this assumption about anemia to the treatment of the elderly, the authors critically review some of the studies that have been designed in the past to determine the prevalence and etiology of anemia in the aged. They suggest that health status, race, socioeconomic status, diet, and religion are more important than age as explanations for the high prevalence of anemia seen in many previous studies.

1.9 ANSWER 28 OF 31 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.  
ACCESSION NUMBER: 81024538 EMBASE  
TITLE: Chronic toxicity of aclacinomycin A in dogs.

AUTHOR: Kawamura K.; Tomizawa S.; Sato H.; et al.  
CORPORATE SOURCE: Dept. Pharmacol., Sch. Pharmaceut. Sci., Kitasato Univ., Tokyo, Japan  
SOURCE: Pharmacometrics, (1980) 19/5 (765-781); CODEN: OYNAZ2

1.9 ANSWER 29 OF 31 MEDLINE DOCUMENT NUMBER: 7911 EMBASE  
TITLE: Evidence for cyclic hemopoiesis. AUTHOR: White J. F.  
CORPORATE SOURCE: EXPERIEN: JOURNAL ARTICLE  
FILE SEGMENT: Priority Journals

PUB COUNTRY: Switzerland  
JOURNAL ARTICLE  
LANGUAGE: English  
FILE SEGMENT: Priority Journals

AB Serum samples collected from a cyclic hemopoietic (C-H) dog under conditions were assayed for hemoglobin synthesis by normal canine erythroid precursors. The results suggest that hemoglobin synthesis in the erythroid precursors which undergoes which

hemopoiesis suggests the effect hemopoiesis. The effect hemopoiesis is increased in the drug-treated dog. The drug-treated dog shows a marked increase in the number of red blood cells and a marked decrease in the number of white blood cells.

1.9 ANSWER 30 OF 31 EMBASE DOCUMENT NUMBER: 784 EMBASE  
TITLE: The effect of hemolysis on hemopoiesis. AUTHOR: Geiman B. H.  
CORPORATE SOURCE: Div. Coll.  
SOURCE: Med. C. Cincinnati.  
COUNTRY: United States  
DOCUMENT TYPE: Journal  
FILE SEGMENT: Priority Journals

AB Male beagle dogs were treated with Aclacinomycin A (0.3, 0.6 or 0.9 mg/kg, s.c.) a new antitumor antibiotic, once a day for 10 months. The results obtained were as follows: 1. One dog given a dose of 0.9 mg/kg died. All other dogs survived. 2. Occasional vomiting and depression of spontaneous activity during the early stage of the administration period, and a

decrease in body weight.

The hematologic values revealed a marked decrease in the hematocrit and hemoglobin were slightly decreased in the erythroid cells and a slight decrease in the erythropoiesis.

In the drug-treated dog, the number of red blood cells was increased and the number of white blood cells was decreased.

The drug-treated dog shows a marked increase in the number of red blood cells and a marked decrease in the number of white blood cells.

The drug-treated dog shows a marked increase in the number of red blood cells and a marked decrease in the number of white blood cells.

The drug-treated dog shows a marked increase in the number of red blood cells and a marked decrease in the number of white blood cells.

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oral-ip dosage regimen. After 27 days of exposure the blood lead (PbB) concentrations were [(mean  $\pm$  SD)] 2.3  $\pm$  1.1 (control), 3.3  $\pm$  4.67  $\leftrightarrow$  13 and 104  $\pm$  17  $\mu\text{g}/100 \text{ ml. Un} \text{ Day 27 PbZ (45 mg/kg sc)} \text{ was administered to half of the rats in each group, and hemoglobin (Hb) and hematocrit (Hct) determinations were performed on tail blood drawn on Days 28, 29, 34, and 40. The results showed that in the acute hemolytic phase after PbZ both lead alone and PbZ alone reduced Hb and Hct, but that the lead-PbZ interaction was not synergistic. A synergistic interaction did occur during the compensatory phase of anemia. The effect$

of in vitro lead exposure on in vitro hemolysis and biochemical defense mechanisms was studied in a second experiment, the results of which showed that lead caused a dose-dependent increase in oxidative hemolysis in vitro. Superoxide dismutase activity was decreased, whereas pentose shunt activity was increased. The effect of lead on reduced glutathione concentrations and glutathione peroxidase activity was biphasic, being increased at the intermediate dose but returning to baseline at the highest dose. It is concluded that the in vivo interaction between Pb concentrations of up to approximately 100  $\mu\text{g}/100 \text{ ml. blood and oxidative hemolytic anemia was due to the ability of lead to inhibit compensatory hematopoiesis after an acute hemolytic episode. The more sensitive in vitro hemolysis test showed that lead caused a dose-dependent increase in oxidative hemolysis, and the biochemical changes observed were consistent with the hypothesis that in vivo lead exposure exerts a moderate pro-oxidant effect on rat erythrocytes.$

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L9 ANSWER 31 OF 31 MEDLINE DUPLICATE 22  
ACCESSION NUMBER: 78007357 MEDLINE  
DOCUMENT NUMBER: 78007357  
TITLE: Anemia of lead intoxication: a role for copper.  
AUTHOR: Klauder D S; Petering H G  
SOURCE: JOURNAL OF NUTRITION (1977 Oct) 107 (10) 1779-85.  
JOURNAL CODE: JEV ISSN: 0022-3165.  
PUB COUNTRY: United States  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197801

L9 Lead-induced anemia in rats, which is of a macrocytic, hypochromic type, has been shown to be a result of an interference with the metabolism of copper and iron. In this complex interaction, copper may be the target upon which ingested lead has its antagonistic effect on hematopoiesis. The depressions in hematocrit and hemoglobin levels resulting from exposure to lead may occur secondarily to the effects of a lead-induced copper deficiency on iron mobilization and utilization. The metabolic fault induced by lead is seen in a reduction of serum iron, elevation of serum iron binding capacity, and increase in liver iron, all manifestations of systemic effects related to an interference with copper metabolism. These results relate many of the characteristics of the lead-induced anemia to those found in the copper-deficiency anemia.

=> d his

(FILE 'HOME' ENTERED AT 14:26:59 ON 16 NOV 1999)

FILE 'MEDLINE\_CANCERLIT\_BIUSTS.EMBASE.SCTSEARCH' ENTERED AT 14:28:40

ON 16 NOV 1999

25 INPROL

L1 05 FRHFULSHÖSÄÄKVÅUR PHE-PRO-HIS-PHE-ASP-EU-SEK.

L2 HSS-GAL-YSER-AL-A

L3 311(S) HEMOGLOBIN AND (STEM CELL OR HEMATOPOIEIS OR PROGENITOR)(WYELL

L4 1002 S(1,3 AND (STIMULATP OR PROLIFER))

L5 400 DUP REM L4 (536 DUPLICATES REMOVED)

L6 790 S(1,3 AND ((INHIBP OR REDUC) OR ABRGATP OR ANTAGOND)

L7 381 DUP REM L6 (409 DUPLICATES REMOVED)

L8 80 S HEMOGLOBIN AND ((STEM CELL OR HEMATOPROLIF OR PROGENITOR)(WYELL

L9 31 DUP REM L8 (49 DUPLICATES REMOVED)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF  
LOGOFF? (Y/N)N/HOLDY

COST IN U.S. DOLLARS	ENTRY	SESSION	TOTAL
FULL ESTIMATED COST	50.68	51.13	

STN INTERNATIONAL LOGOFF AT 15:01:19 ON 16 NOV 1999